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**CLAIMS**

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[Claim(s)]

[Claim 1] A nature high voltage cast of keratin protein produced by carrying out high-pressure molding of the compound, comprising:

Powder or fibrous keratin.

It is the total quantity applied by request and they are less than 50% of the weight of a binder and other additive agents of the whole quantity.

[Claim 2] The cast according to claim 1 whose average size keratin is a thing of 0.1 micrometers or more for keratin powder or textiles, such as a hoof of wildlife, an angle, a beak, a nail, scales, a shell, animal hairs, feathers, wool, and the hair.

[Claim 3] A binder A protein partial decomposition product, gelatin, glue, collagen, casein, Milk, an egg white, starch, cystine, cystein, thioglycollate salt, fats and oils, A natural material and/or an epoxy resin which are chosen from rosin, sap, crude rubber (NR), etc., Melamine resin, urea resin, polyester resin, an acrylic resin, polyurethane resin, Polyamino resin, polycarbonate resin, polyvinyl chloride resin, polyamino acid resin, The cast according to claim 1 which are synthetic rubbers, such as a synthetic resin chosen from PVA, polyolefin resin, etc. and SBR (styrene butadiene rubber), IR (isoBURENGOMU), and BR (butadiene rubber).

[Claim 4] The cast according to claim 1 in which said additive agent is a cross linking agent.

[0001]

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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-320358

(43)Date of publication of application : 03.12.1993

(51)Int.Cl.

C08H 1/06  
B44C 5/06

(21)Application number : 04-174659

(71)Applicant : AJINOMOTO TAKARA CORP:KK

(22)Date of filing : 22.05.1992

(72)Inventor : DATE TATSUYA  
ISHII AKIO

### (54) KERATIN PROTEIN ARTICLE MOLDED BY HIGH-PRESSURE MOLDING

(57)Abstract:

PURPOSE: To obtain a keratin protein molded article having excellent toughness, engraving suitability and feeling to finger and useful as artificial ivory, artificial tortoise shell, stamp material, etc., by compounding powdery keratin, etc., with a specific amount of a binder and molding the obtained composition under high pressure.

CONSTITUTION: The keratin protein molded article is produced by the high- pressure molding of a composition composed of (A) preferably 70-95wt.% of powdery or fibrous keratin having an average size of  $\geq 0.1\mu\text{m}$ , e.g. hoof, horn, beak, claw, scale, carapace, fwr, feather, wool or hair of birds and animals and (B) <50wt.% in total (based on the total composition) of arbitrary additives such as a binder (e.g. partially decomposed protein or gelatin), a cross-linking agent (e.g. epoxy resin), etc.